

# SAMPLE SPECS. FOR ARMY MAP JOB

August 1970

## PURCHASE DESCRIPTION

FOR

MOTORIZED PUSH-BUTTON MOVABLE SHELVING

25X1A6a

3	2 copies RAB/SSS	DATE	INFORMATION
		INITIALS	NOTE AND RETURN
4	4 copies COE	DATE	PER CON-VERSATION
		INITIALS	SEE ME
	2 copies [REDACTED]	DATE	SIGNATURE
	8 copies		

### REMARKS

SUBJECT: Purchase Description Motorized Shelving.

1. Ref: MRS dated 21 Jul 70, subject as above.
2. Attached is one copy of the purchase description for Motorized Shelving prepared by TOPCOM.

NOTE: There will be a change in that shelf weight reduced to 150 pounds per shelf and the range weight of 35,000 to 50,000 pounds is deleted with a substitution of 16,900 pounds for each movable range and half that for each stationary end.

COMPONENTS OF PURCHASE DESCRIPTION

Section I General Provisions

Section II Technical Provisions

Section III Testing

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SECTION I - GENERAL PROVISIONS

I. GENERAL

1.1. SCOPE - The motorized push-button movable shelving to be purchased and installed under this Purchase Description consists of furnishing all services, materials, supplies, labor and superintendence required to furnish the desired installation of motorized shelving.

1.2. GENERAL DESCRIPTION - The motorized or motor driven record storage shelving system for compact storage of records and/or equipment shall be used by PSID, Department of Technical Services. It shall allow for fast and efficient storage and retrieval of products of this division. This equipment shall be installed in Abert Hall, U.S. Army Topographic Station. This shelving shall consist of single or double faced sections of shelving. This shelving shall be attached to a platform, placed on rails and then power driven.

1.3. RELATED ITEMS TO BE FURNISHED BY THE CONTRACTOR -

1.3.1. Complete components list to expedite ordering replacement parts including supplier's name and address; stock and parts number; delivery waiting period.

1.3.2. One reproduced set of detailed working drawings used to construct the equipment furnished under this Purchase Description. Accurate, complete and up-to-date circuit and wiring diagrams of all equipment furnished by the contractor plus a list of electrical parts shall be included.

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1.3.3. One set of spare circuit board or control boards of type used in this equipment. One new motor to be used as a replacement, of the type used in this equipment installed.

1.3.4. A list of any special tools necessary for assembly, adjustment, and maintenance.

1.3.5. A diagram shall be furnished showing major events and time sequence between events.

1.4. INSPECTION AND TESTS AT FACTORY - The equipment, during the design, manufacturing, assembly, and preparatory for delivery thereof, shall be subject to inspection at any time by Government representation who shall be afforded proper assistance.

1.5. DEMONSTRATION OF PERFORMANCE AND ACCEPTANCE TEST AT U.S. ARMY TOPOGRAPHIC COMMAND - Upon completion of installation the Contractor shall indicate to the Contracting Officer that final acceptance test may be started. Final acceptance will be made upon satisfactory completion of the acceptance test (Section III).

1.6. GUARANTEE - The equipment provided shall be guaranteed against defects, workmanship and material. The guarantee provided the Government shall be the same as afforded any civilian organization when the same type of equipment is installed. The Contractor is responsible for debugging and problem-solving resulting from design failures, at no additional cost.

1.7. TRAINING OF PERSONNEL - The Contractor shall provide training in the operation and servicing of the equipment for USATOPOCOM employees at no cost to the Government. This training shall be accomplished at the site of installation in lieu of training at factory.

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1.8. DELIVERY AND INSTALLATION - Delivery will be made to the U.S. Army Topographic Command, Washington, D.C. Installation shall be performed by the Contractor. There shall be no additional cost to the Government for either of these services. The first module of shelving shall be delivered and installed within 75 days from date of contract. Installed means completed and ready for testing. Each additional module will be installed at the rate of one (1) module a week until all have been installed to the satisfaction of the Contracting Officer.

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SECTION II - TECHNICAL PROVISIONS

2. GENERAL - The provisions outlined in this Purchase Description are for the furnishing and installing in one area of the U.S. Army Topographic Command a series of modules of motor driven record storage shelving systems for compact storing of records and/or equipment. Each module shall consist of two stationary and six moveable ranges of five sections.

2.1. KIND OF MATERIAL - The shelving shall be made from either wood or steel.

2.2. COMPONENTS OF SHELVING - All units to have uprights, tops, bases, closed backs, base molding, closed ends, kick-boards, with rail end stops and all other necessary hardware in accordance with those outlined in this Purchase Description.

2.3. MOTOR DRIVEN UNIT - An individual motor or a group of motors will be used to drive the movable units along rails so installed on surface of floor.

2.4. CONTROL PANEL - This panel is to accurately direct the movement of the shelves. The control panel will program the movement of the shelves right or left automatically, depending on the location of the aisle being opened.

2.5. COMPONENTS OF A SECTION - One pair of uprights with required number of shelves and back constitute a standard section.

2.6. COMPONENTS OF SHELVING - Each section will consist of twelve (12) moveable shelves in addition to the top and base. Each shelf must be individually adjustable on one-inch centers. Shelves shall be at width of 36" and depth of 12". All shelves shall have a rated capacity of 500 pounds, equally distributed.

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2.7. AISLES - Aisles shall be wide enough for two people to pass or one person moving in and out easily with a handcart. Each module will have an aisle which will measure a maximum of 42". The system shall be so designed that any individual aisle will open in a maximum of 11 seconds.

2.8. OVERALL LENGTH - Each unit whether stationary or moveable shall be a maximum of 15'6" in length and must be capable of handling heavy loads of 35,000 to 50,000 pounds quickly and easily.

2.9 DECKING AND FLOORING - Decking or flooring shall be provided within all modules, and within the tracks or rails which shall be covered with asphalt tile to facilitate the use of record trucks and similar loads without deflection. The main aisle running the length of all modules shall be floored to the level of the range aisles. Suitable ramps shall be provided along all main aisle areas.

2.10. VISUAL CONTROLS

2.10.1. Bumper - Along all leading edges of each range shall be installed a sponge rubber type bumper or buffer running the full height to preclude visual observation of stored equipment or records and to reduce dust collecting in shelf areas.

2.10.2 Doors - Each module will be equipped with a door that closes the aisle and shall be equipped with a key type lock. These doors will run the full height of the equipment installed and will be so installed that they will not block or interfere with the operation of the individual module. These doors will have an interlock switch which will prevent the system from operating when doors are closed.

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2.11. FINISH - If wooden shelves are purchased the end panels will have a mylar finish to facilitate the cleaning and maintenance of this equipment. If steel shelves are purchased they will be finished off with a baked enamel paint to facilitate the cleaning and maintenance of equipment.

2.12. SAFETY FEATURES -

2.12.1. All modules will be built so as to have at least three separate and distinct safety features which any one will control operations of a grouping without the aid of the other.

2.12.2. The entire module shall be so constructed that any one aisle can be opened by hand if for any reason there should be a power failure.

2.13. RAILS - The rails on which this equipment shall operate must be assembled and placed on the floor so as to be absolutely level to plus or minus 1mm, both horizontally and vertically.

2.14. ELECTRICAL - All components shall operate from 110/120 volts, single-phase 60 cycle per second (cps) plus or minus five percent alternating current (AC) power source. All electrical equipment and wiring shall conform to good commercial policies.

2.15 MAINTAINABILITY - Fabrication of this equipment shall be predicated on attainment of maximum maintainability compatible with the requirements of this Purchase Description. The combined features of the materials and parts selected, equipment fabrication, and equipment installation shall permit or enhance maintenance by persons of average skill.



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SECTION III - TESTING

3.1. QUALITY ASSURANCE PROVISIONS - Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. The Government reserves the right to perform any of the inspections set forth in the specifications when such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

3.2. ACCEPTANCE TESTING - The system shall be subjected to acceptance testing to determine compliance with the requirements of the Purchase Description. The acceptance tests shall consist of:

(a) Preliminary acceptance tests (see paragraph 3.3.)

(b) Final acceptance tests (see paragraph 3.4.)

3.3. PRELIMINARY ACCEPTANCE TESTS - The preliminary acceptance test shall be conducted by the Contractor at the site of installation and shall be supervised by authorized representation of the procuring activity. The preliminary acceptance test shall include, but not necessarily be limited to, the items as described under paragraph 3.8., "Test Methods," of the Purchase Description.

3.3.1. Preliminary Acceptance Test Reports - No written preliminary test report will be required by the Contractor.

3.4. FINAL ACCEPTANCE TESTS - The final acceptance tests will be conducted by the Government using Government personnel and facilities at the U.S. Army Topographic Command. The testing will follow a Plan of Test outlined below.

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3.5. PREVIOUS ACCEPTANCE OR APPROVAL - Previous acceptance or approval of material by the procuring activity shall in no case be construed as a guarantee of the acceptance of the finished product.

3.6. TEST CONDITIONS - Unless otherwise specified, all tests required by this Purchase Description shall be made at operating temperature and humidity conditions.

3.7. TEST METHODS -

3.7.1. Mechanical Inspection Tests - The system shall be given a thorough mechanical and visual inspection and test to determine that the quality of all materials and workmanship is in compliance with the requirements of this Purchase Description. Particular attention shall be given to the following:

- (a) Completeness.
- (b) Nameplates, identification markings, and labels.
- (c) Ease of operation of gears, adjustable and sliding parts, screws, controls, and switches.
- (d) Finishes.
- (e) Welded joints.
- (f) Check of solder joints.
- (g) The fit of components in their respective positions.
- (h) Check of mounting means.
- (i) Check of lubrication and rust prevention.
- (j) Check of safety features and interlocks.
- (k) Loose fastening and securing devices or parts.
- (l) Accessibility of components and parts for servicing and

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(m) Cable runs between components including plugs and receptacles.

(n) Grounding connections.

(o) Overall dimensions checked.

(p) Weight check.

(q) Other visual defects.

3.7.2. Electrical Tests - The system shall be given all electrical tests necessary to confirm that all circuits are inherently sound and in compliance with the requirements of this Purchase Description.

3.7.2.1. Continuity - Each electrical component and each cord and cable shall be given a continuity test to ascertain that it is wired and connected correctly and that good electrical contact is obtained.

3.7.2.2. Operating Voltages - The operating voltage at all important points shall be checked for conformance to those shown on the circuit label and schematic drawings. This shall be done with all controls set for normal operation of the equipment.

3.7.3. Performance Tests - The equipment shall be tested to ascertain that the units suitably perform their intended functions in accordance with the provisions set forth in this Purchase Description. The Contractor shall test and operate the equipment for at least 48 consecutive hours in such a manner as to demonstrate that the required reliability has been provided. The purchaser shall load the equipment and operate it for one week after installation which shall be considered as part of the test or as a debugging period.